

E. H. A.

condition. *Pennsylvania*—Green Castle, 16th, dandelions in bloom; Tioga, 25th, dandelions in bloom; Chambersburg, 28th to 31st, pansies, dandelions and honeysuckle in bloom; Hulmesville, 8th, dandelions in bloom. *Rhode Island*—Newport, roses, honeysuckle and pansies blooming and grass green. *South Carolina*—Aiken, 16th, jonquils in bloom. *Texas*—Clarksville, wheat and oats look well; cotton-picking nearly finished. *Tennessee*—Nashville, 28th, grass green and growing rapidly. *Virginia*—Alto Vista, 31st, strawberries in bloom; Prospect Hill, 28th, strawberries in bloom; Wytheville, 29th, lilac buds ready to burst, leaflets visible. *Wisconsin*—Embarrass, 31st, buds of the lilac and currant swollen as in spring; grass starting; fall grain looks as forward as that of last fall did the first of June.

Meteors were observed on the 1st, Mo., Gr.; 2nd, Conn., Ind., Iowa, Kan., Md., N. Y.; 3rd, Md., Mo., N. Y., Ohio.; 6th, Ill.; 7th, Ind., La., Mass., N. J., Mo.; 8th, Conn., Iowa, Md., N. Y.; 9th, Ind., Iowa, Md.; 10th, Iowa, N. J., Pa.; 11th, Ind., Iowa, Kan., La., Md., Mass., N. Y., Pa., Mo., Neb.; 12th, Ind., Iowa, La., Md., Mo., Idaho.; 13th, Ind., Kan., Mo.; 15th, Mo.; 16th, Kan., Mass.; 17th, Cal.; 18th, Ga., W. Va.; 23rd, Mass.; 24th, Mass.; 25th, Kan., Me.; 26th, N. Y.; 27th, N. Y.; 28th, N. Y., Vt., Me.; 29th, Md., N. J.; 31st, Conn., Ill., Mass., N. J., Pa. Emerson, Neb., meteors nearly every night during the month. Clear Creek, Neb., 10th, several bright meteors during evening. Indianapolis, Ind., 12th, between 3 and 4 a. m., 51 meteors in 30 minutes. Tybee Island, Ga., 1st, large numbers of faint meteors appeared, 8 to 11 p. m., from east.

Prairie Fires, were reported as follows; on the 2nd, Ind. Ty.; 6th, Kan.; 7th, Kan.; 8th, Kan.; 9th, Dak., Ind. Ty., Kan.; 11th, Ind. Ty., Kan.; 12th, Dak. Kan.; 13th, Kan.; 14th, Dak., Kan.; 15th, Dak., Kan.; 16th, Dak.; 19th, Dak.; 28th, Kan.

Earthquake.—Canada—18th, Beachburg, Ont., between 5 and 6 a. m., two shocks; last one quite severe.

Zodiacal light was observed at Savannah, Ga., on the 1st, 2nd, 3rd and 5th; Southington, Conn., 2nd, 3rd, 7th, 8th, 23rd, 24th to 29th and 31st; St. Mary's Home, Ind., 2nd, 3rd, 7th, 8th, 9th, 11th to 14th; Great Bend, Kan., 7th, 11th; Somerset, Mass., 23rd to 29th and 31st; Rowe, 28th; Cambridge, Mass., Mass., 1st to 3rd, 7th, 23rd to 31st; Oregon, Mo., 15th; Ateo, N. J., 31st; Monticello, Iowa, 31st.

SOLAR PHENOMENA.

Sun spots.—The following observations, made by Mr. D. P. Todd, upon the spots of the sun, have been kindly communicated by Rear Admiral John Rodgers, U. S. N., Superintendent of the Naval Observatory:

Dec., 1877.	No. of new—		Disappeared by solar rotation		Reappeared by solar rotation.		Total number visible.		Remarks.
	Groups	Spots.	Groups	Spots.	Groups	Spots.	Groups	Spots.	
1st, 12 m.....	0	0	0	0	0	0	1	9	
2d, 3 p. m....	0	0	0	5	0	0	1	4	
3d, 3 p. m....	0	0	0	2	0	0	1	2	
6th, 1 p. m....	0	0	0	0	0	0	0	0	
7th, 11 a. m...	0	0	0	0	0	0	0	0	
8th, noon.....	0	0	0	0	0	0	0	0	
9th, 3 p. m....	0	0	0	0	0	0	0	0	
13th, 2 p. m....	0	0	0	0	0	0	0	0	
14th, 11 a. m...	0	0	0	0	0	0	0	0	
16th, 1 p. m....	0	0	0	0	0	0	0	0	
16th, 3 p. m....	0	0	0	0	0	0	0	0	
17th, 11 a. m...	0	0	0	0	0	0	0	0	
18th, 11 a. m...	0	0	0	0	0	0	0	0	
20th, 2 p. m....	1	1	0	0	1	1	1	1	
31st, 11 a. m...	0	3	—	—	—	—	1	4	Two large groups of faculae.

At the Cincinnati Observatory the following observations were taken by Mr. John Given, and communicated by Ormond Stone, Director of Observatory: December 20th, at noon—new groups, 1; new spots, 1. December 21st, at noon—visible, groups, 1; spots, 1.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

Albert J. Myer

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